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**SECTION 1**

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PRODUCT IDENTIFIER      ZY8165      KENKS EPOXY PT. THINNER  
DATE OF PREPARATION      DECEMBER 30, 1999  
PRODUCT USE      PROTECTIVE COATING

MANUFACTURED BY:      ICI PAINTS NORTH AMERICA, 925 EUCLID AVENUE,  
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EMERGENCY AND MSDS TELEPHONE NUMBER:  
1-800-545-2643

MSDS PREPARED BY:      PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
                         ICI PAINTS NORTH AMERICA

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

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	INGREDIENT	WT. %:
CHEMICAL NAME	BENZENE, METHYL-	20-30
COMMON NAME :	TOLUENE	
CAS NUMBER:	108-88-3	
CHEMICAL NAME	ACETIC ACID, BUTYL ESTER	10-20
COMMON NAME :	BUTYL ACETATE	
CAS NUMBER:	123-86-4	
CHEMICAL NAME	SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	20-30
COMMON NAME :	LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)	
CAS NUMBER:	64742-89-8	
CHEMICAL NAME	2-PROPANONE	20-30
COMMON NAME :	ACETONE	
CAS NUMBER:	67-64-1	
CHEMICAL NAME	PROPANOIC ACID, 3-ETHOXY-, ETHYL ESTER	10-20
COMMON NAME :	ETHYL 3-ETHOXYPROPIONATE	
CAS NUMBER:	763-69-9	
CHEMICAL NAME	1-PROPANOL, 2-METHYL-	10-20
COMMON NAME :	ISOBUTANOL	
CAS NUMBER:	78-83-1	
CHEMICAL NAME	2-BUTANONE	10-20
COMMON NAME :	METHYL ETHYL KETONE	
CAS NUMBER:	78-93-3	

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**SECTION 3: HAZARDS IDENTIFICATION**

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PRIMARY ROUTE(S) OF EXPOSURE  
                         INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

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**SECTION 3: HAZARDS IDENTIFICATION**

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<b>INHALATION</b>	PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, ABDOMINAL PAIN, CHEST PAIN, COUGHING, DIFFICULTY WITH SPEECH, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, METALLIC TASTE, CONFUSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE, NEUROTOXICITY LOSS OF CONSCIOUSNESS, ASPHYXIATION, DEATH.
<b>SKIN CONTACT</b>	IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING.
<b>EYE CONTACT</b>	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION, CORNEAL INJURY.
<b>INGESTION</b>	INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS.
<b>MEDICAL CONDITIONS</b>	AGGRAVATED BY EXPOSURE EYE, SKIN, RESPIRATORY DISORDERS KIDNEY DISORDERS LIVER DISORDERS NERVOUS SYSTEM DISORDERS

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**SECTION 4: FIRST-AID MEASURES**

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<b>INHALATION</b>	REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.
<b>SKIN CONTACT</b>	FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.
<b>INGESTION</b>	IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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FLASH POINT (BETA) 10 F./ -12 C. LOWER EXPLOSIVE LIMIT 1.2 (X)  
UPPER EXPLOSIVE LIMIT 10.9 (X)

**FIRE EXTINGUISHING MEDIA**

DRY CHEMICAL OR FOAM  
WATER FOG.  
CARBON DIOXIDE.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.  
VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES.  
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.  
VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.  
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.  
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

**FIRE FIGHTING PROCEDURES**

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.  
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

**HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.  
ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL.  
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.  
LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.  
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

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**SECTION 7 HANDLING AND STORAGE**

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**HANDLING AND STORAGE**

STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

**OTHER PRECAUTIONS**

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.  
KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE.

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**SECTION 7 HANDLING AND STORAGE**

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EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.  
GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION  
OF STATIC CHARGE.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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COMMON NAME : TOLUENE  
CAS NUMBER: 108-88-3  
ACGIH(TWA): SKIN 50 PPM OSHA(TWA): 200 PPM  
OSHA( SKIN) : CEILING: 300 PPM SUPP REC STD.: NOT AVAILABLE

COMMON NAME : BUTYL ACETATE  
CAS NUMBER: 123-86-4  
ACGIH(TWA): 150 PPM OSHA(TWA): 150 PPM  
ACGIH(STEL): 200 PPM

COMMON NAME : LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)  
CAS NUMBER: 64742-89-8  
OSHA(TWA): 300 PPM

COMMON NAME : ACETONE  
CAS NUMBER: 67-64-1  
ACGIH(TWA): 500 PPM OSHA(TWA): 1000 PPM  
ACGIH(STEL): 750 PPM

COMMON NAME : ISOBUTANOL  
CAS NUMBER: 78-83-1  
ACGIH(TWA): 50 PPM OSHA(TWA): 100 PPM

COMMON NAME : METHYL ETHYL KETONE  
CAS NUMBER: 78-93-3  
ACGIH(TWA): 200 PPM OSHA(TWA): 200 PPM  
ACGIH(STEL): 300 PPM

SKIN - DENOTES THAT ADDITIONAL EXPOSURE, OVER AND ABOVE  
AIRBORNE EXPOSURE, MAY RESULT FROM SKIN ABSORPTION.

**RESPIRATORY PROTECTION**

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE  
EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN  
RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A  
NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-  
SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR  
CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS.  
DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING  
APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR  
SELECTION OF RESPIRATORS (CANADIAN Z94.4).

**VENTILATION**

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT  
BUILD-UP OF VAPORS.  
USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

**PERSONAL PROTECTIVE EQUIPMENT**

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**


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VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	.825
BOILING RANGE:	133-527F/56-275C	WEIGHT PER GALLON:	6.87/ 8.25IMP
EVOLATILE BY VOLUME:	100.00		
PHYSICAL STATE:	LIQUID	APPEARANCE	WHITE
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

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**SECTION 10: STABILITY AND REACTIVITY**


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**UNDER NORMAL CONDITIONS**

STABLE

SEE SECTION 5 FIRE FIGHTING MEASURES

**MATERIALS TO AVOID**

OXIDIZERS, ACIDS, BASES, ALDEHYDES, AMINES, PEROXIDES,  
AMMONIA, NITRIC ACID, CAUSTICS, MINERAL ACIDS,  
NITRATES.

**CONDITIONS TO AVOID**

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, SPARKS,  
OPEN FLAME, IGNITION SOURCES.

**HAZARDOUS POLYMERIZATION**

WILL NOT OCCUR

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**SECTION 11: TOXICOLOGICAL INFORMATION**


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COMMON NAME : TOLUENE

CAS NUMBER: 108-88-3

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	12.10 GM/KG SKN RBT			
LD50:	636.00 MG/KG ORL RAT			
LC50:	400.00 PPM IHL MOU			

COMMON NAME : BUTYL ACETATE

CAS NUMBER: 123-86-4

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	10.76 GM/KG ORL RAT			
LD50:	4700.00 MG/KG ORL GPG			
LD50:	17.00 GM/KG SKN RBT			
LC50:	2000.00 PPM/4HR IHL RAT			

COMMON NAME : LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)

CAS NUMBER: 64742-89-8

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	3.16 GM/KG SKN RBT			
LD50:	5.00 GM/KG ORL RAT			

COMMON NAME : ACETONE

CAS NUMBER: 67-64-1

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	5800.00 MG/KG ORL RAT			
LD50:	9400.00 MG/KG SKN GPG			

COMMON NAME : ETHYL 3-ETHOXYPROPIONATE

CAS NUMBER: 763-69-9

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	4.30 GM/KG ORL RAT			

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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LD50: 10.00 ML/KG SKN RBT

COMMON NAME : ISOBUTANOL

CAS NUMBER: 78-93-1

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

LD50: 2460.00 MG/KG ORL RAT

LD50: 3400.00 MG/KG SKN RBT

LC50: 8000.00 PPM/4HR IHL RAT

COMMON NAME : METHYL ETHYL KETONE

CAS NUMBER: 78-93-3

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

LD50: 2737.00 MG/KG ORL RAT

LD50: 4050.00 MG/KG ORL MDU

LD50: 6480.00 MG/KG SKN RBT

LC50: 40.00 PPM/2HR IHL MDU

**SUPPLEMENTAL HEALTH INFORMATION**

CONTAINS A CHEMICAL THAT IS MODERATELY TOXIC BY INGESTION.

CONTAINS A CHEMICAL THAT IS TOXIC BY DERMAL ABSORPTION.

CONTAINS A CHEMICAL THAT IS TOXIC BY INHALATION.

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED

OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN

AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY

DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS

MAY BE HARMFUL OR FATAL.

OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER,

KIDNEY, CENTRAL NERVOUS SYSTEM, BLOOD, HEART.

**CARCINOGENICITY** NO CARCINOGENIC EFFECTS ARE ANTICIPATED**REPRODUCTIVE EFFECTS** NO REPRODUCTIVE EFFECTS ARE ANTICIPATED**MUTAGENICITY** NO MUTAGENIC EFFECTS ARE ANTICIPATED**TERATOGENICITY** NO TERATOGENIC EFFECTS ARE ANTICIPATED

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**SECTION 12: ECOLOGICAL INFORMATION**

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NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS  
PRODUCT AS A WHOLE.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL** DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.  
AVOID DISCHARGE TO NATURAL WATERS.

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**SECTION 14: TRANSPORT INFORMATION**

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DOT PAINT RELATED MATERIAL, 3, UN1263, PGII  
IMDG PAINT RELATED MATERIAL, CLASS 3.2, UN1263,  
PGII, LIMITED QUANTITY  
IATA NOT AVAILABLE  
TDG NOT AVAILABLE

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**SECTION 15: REGULATORY INFORMATION**

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		SARA 302	SARA 313	CERCLA 302.4	HAZ POLLUTANT	AIR MARINE POLTNT
CAS NUMBER:	108-88-3	NO	YES	YES	YES	NO
COMMON NAME :	TOLUENE					
CAS NUMBER:	123-86-4	NO	NO	YES	NO	NO
COMMON NAME :	BUTYL ACETATE					
CAS NUMBER:	67-64-1	NO	NO	YES	NO	NO
COMMON NAME :	ACETONE					
CAS NUMBER:	78-83-1	NO	NO	YES	NO	NO
COMMON NAME :	ISOBUTANOL					
CAS NUMBER:	78-93-3	NO	YES	YES	YES	NO
COMMON NAME :	METHYL ETHYL KETONE					

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

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**SECTION 16: OTHER INFORMATION**

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THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.